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**DIVISION OF ENGINEERING SERVICES**  
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**\*\* WARNING \*\* WARNING \*\* WARNING \*\* WARNING \*\***

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June 16, 2006

04-Ala-238,580,880-R23.2/26.8,48.5/R49.6,29.8/32.8  
04-249044  
STPL-6204(057) N

Addendum No. 6

Dear Contractor:

This addendum is being issued to the contract for construction on State highway in ALAMEDA COUNTY IN AND NEAR HAYWARD AND SAN LEANDRO ON ROUTE 880 FROM 0.3 KM NORTH OF THE WEST A STREET UNDERCROSSING TO 0.1 KM NORTH OF THE LEWELLING BOULEVARD UNDERCROSSING AND ON ROUTE 580 FROM 0.3 KM EAST OF THE STROBRIDGE AVENUE UNDERCROSSING TO THE WEST 580-NORTH 238 CONNECTOR SEPARATION AND ON ROUTE 238 FROM THE WEST 580-NORTH 238 CONNECTOR SEPARATION TO THE WASHINGTON STREET OFF-RAMP.

Submit bids for this work with the understanding and full consideration of this addendum. The revisions declared in this addendum are an essential part of the contract.

Bids for this work will be opened on June 28, 2006.

This addendum is being issued to revise the Notice to Contractors and Special Provisions, the Federal Minimum Wages with Modification Number 34 dated 6-9-06, and to provide a copy of the Information Handout.

In the Special Provisions, Section 5-1.16, "PROJECT INFORMATION," the following subparagraph is added at the end of the third paragraph as follows:

"O. Supplemental Settlement Period Information at Retaining Wall No. 7 & 8, and at Hesperian Blvd On-Ramp UC, dated June 12, 2006."

In the Special Provisions, Section 10-1.36, "EARTHWORK," the twelfth through twentieth paragraphs are revised as attached.

In the Special Provisions, Section 10-1.92, "DRAINAGE WICK," the last paragraph is revised as follows:

"Full compensation for furnishing all labor, materials, tools, equipment, and incidentals, and for doing all the work involved in installing drainage wicks, complete in place including submitting the working drawings for the drainage wick systems and trial drainage wicks shall be considered as included in the contract price paid per various items of work, and no additional compensation will be allowed therefor."

The information handout, "Supplemental settlement period information at Retaining Wall Nos. 7 & 8, and at Hesperian Blvd On-ramp UC," is added as attached.

Addendum No. 6  
Page 2  
June 16, 2006

04-Ala-238,580,880-R23.2/26.8,48.5/R49.6,29.8/32.8  
04-249044  
STPL-6204(057) N

To Proposal and Contract book holders:

Inquiries or questions in regard to this addendum must be communicated as a bidder inquiry and must be made as noted in the NOTICE TO CONTRACTORS section of the Notice to Contractors and Special Provisions.

Indicate receipt of this addendum by filling in the number of this addendum in the space provided on the signature page of the proposal.

Submit bids in the Proposal and Contract book you now possess. Holders who have already mailed their book will be contacted to arrange for the return of their book.

Inform subcontractors and suppliers as necessary.

This office is sending this addendum by confirmed facsimile to all book holders to ensure that each receives it. A copy of this addendum and the modified wage rates are available for the contractor's use on the Internet Site:

**[http://www.dot.ca.gov/hq/esc/oe/weekly\\_ads/addendum\\_page.html](http://www.dot.ca.gov/hq/esc/oe/weekly_ads/addendum_page.html)**

If you are not a Proposal and Contract book holder, but request a book to bid on this project, you must comply with the requirements of this letter before submitting your bid.

Sincerely,

ORIGINAL SIGNED BY

REBECCA D. HARNAGEL, Chief  
Office of Plans, Specifications & Estimates  
Office Engineer

Attachments

Settlement periods are required for the bridge approach embankments at the bridges listed in the following table. Surcharge embankments shall be constructed at the grading plane where listed in the following table:

Bridge Name or Number	Abutment Number	Bent Number	Surcharge Height (meters)	Settlement Period (days)
N880-E238 Connector Ramp (Widen)	1	—	0.0*	60
N880-E238 Connector Ramp (Widen)	3	—	0.0*	30
Ashland Avenue Undercrossing (Widen)	1	—	0.0*	75
Ashland Avenue Undercrossing (Widen)	2	—	0.0*	75
Hesperian Boulevard Undercrossing Br. No. 33-216K	1	—	N/A – 1 <sup>st</sup> stage 0.0* - 2 <sup>nd</sup> stage	50 – 1 <sup>st</sup> stage 250 – 2 <sup>nd</sup> stage
Hesperian Boulevard Undercrossing Br. No. 33-216K	2	—	N/A – 1 <sup>st</sup> stage 0.0* - 2 <sup>nd</sup> stage	50 – 1 <sup>st</sup> stage 250 – 2 <sup>nd</sup> stage

\* At this location, the surcharge embankment shall be constructed by extending the grading plane (GP) in the "Elevation" view of the "Bridge Embankment Surcharge" detail of Standard Plan A62B horizontally to the centerline of abutment.

At the Contractor's option, drainage wicks may be installed to reduce the settlement period at Hesperian Boulevard Undercrossing, Br. No. 33-0216K approach embankment. Drainage wicks shall conform to the provisions in "Drainage Wick," of these special provisions.

The fill at Hesperian Boulevard Undercrossing, Br. No. 33-0216K approach embankment shall be placed in two stages with approximately two-thirds of the total fill height placed in the first stage.

Settlement periods are required for the roadway embankments at the earth retaining structures listed in the following table:

Earth Retaining Structure Number	Settlement Period (days)
Retaining Wall No. 3	30
Retaining Wall No. 4	60
Retaining Wall No. 5	30
Retaining Wall No. 6	30
Retaining Wall No. 7	50 – 1 <sup>st</sup> stage 250 – 2 <sup>nd</sup> stage
Retaining Wall No. 8	60 – 1 <sup>st</sup> stage 200 – 2 <sup>nd</sup> stage
Retaining Wall No. 9 (Type 1 SWB-spread footing)	30
Retaining Wall No. 9 (Type 1 SWB-pile foundation)	30
Retaining Wall No. 10	30
Retaining Wall No. 11 (Type 1 SWB-pile foundation)	30
Retaining Wall No. 11 (Type 1 SWB-spread footing)	30
Retaining Wall No. 12 (Type 1 SWB-pile foundation)	30
Retaining Wall No. 12 (Type 1 SWB-spread footing)	30
Retaining Wall No. 12 (Type 5 SWB-CIDH pile foundation-light weight fill)	0
Retaining Wall No. 18	30

At the Contractor's option, drainage wicks may be installed to reduce the settlement period at Retaining Wall No. 7 and Retaining Wall No. 8. Drainage wicks shall conform to the provisions in "Drainage Wick," of these special provisions.

The fill at Retaining Wall No. 7 and No. 8 shall be placed in two stages with approximately two-thirds of the total fill height placed in the first stage.

The estimated duration of the settlement periods are listed in the tables above. The actual duration of the required settlement period at each location will be determined by the Engineer. The Engineer may order an increase or decrease in any settlement period. An ordered increase in any settlement period will result in an increase in the number of contract working days if the specific settlement period is or becomes a controlling operation over the duration of the contract. Adjustment of working days will be in conformance with the provisions in Section 8-1.06, "Time of Completion," of the Standard Specifications. Adjustments of contract time due to increases in settlement periods will be made by contract change order.

The settlement periods for other roadway embankments shall be as follows: embankments that are 6 m or more in height, three to four months; embankments that are 3 m to 6 m in height, two months; embankments less than 3 m in height, 30 days. The settlement periods are required between construction of the embankments and the construction of settlement sensitive items including soundwalls, drainage pipes, drainage structures and final paving."

# INFORMATION HANDOUT

## MATERIALS INFORMATION

SUPPLEMENT TO FOUNDATION REPORT  
"Supplemental settlement period information  
at Retaining Walls Nos. 7 & 8, and  
at Hesperian Blvd On-ramp UC"

**ROUTE: 04-ALA-238,580,880 – KP R23.2/26.8, 48.5/R49.6, 29.8/32.8**

CONTRACT NO. 04-249044  
ADDED PER ADDENDUM NO. 6 DATED JUNE 16, 2006



**Parsons  
Brinckerhoff**

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San Francisco, CA 94107-1317  
415-243-4600  
Fax: 415-243-9501

June 12, 2006

Ms. Emerald Burroughs  
Caltrans District 4  
111 Grand Avenue, 11<sup>th</sup> Floor  
Oakland, CA 94612

Ms. Mingxia Pan  
Caltrans Office of Structure Office Engineer  
1120 N Street  
Sacramento, CA 94273

**Reference:** Interstate 238 Widening Project

**Subject:** Supplemental Settlement Period Information at Retaining Wall Nos. 7 & 8, and  
at Hesperian Blvd On-Ramp UC

Dear Ms. Burroughs and Ms. Pan:

We have reviewed the settlement period requirements contained in the Foundation Reports for Retaining Walls and Hesperian Boulevard On-Ramp UC. Specifically,

- The 100% Submittal of the Foundation Report, Section 8.5 (Retaining Wall No. 7), paragraph 3 recommends a settlement period on the order of 300 days before pavement construction is placed, and indicates that wick drains may be considered to reduce the settlement period to 45 days (with wick drains at 2' c/c spacing); paragraph 4 indicates that short-term bearing capacity appears to be a concern and recommends two-stage construction (as described above). This same paragraph indicates the wick drains are expected to accelerate the consolidation settlements and the increase of shear strength of the underlain clay layers (from 300 days to 45 days for each stage.) Reference is made to Appendix C for calculations; these calculations address the use of wick drains only, and do not include calculations for the two-stage scenario without wick drains.
- The 100% Submittal of the Foundation Report, Section 8.6 (Retaining Wall No. 8) recommends a settlement period on the order of 150-210 days before pavement construction is placed, and indicates that wick drains may be considered to reduce the settlement period to 45 days. This Section also recommends two-stage construction.

We have prepared calculations of the required settlement periods for the two-stage construction scenario without the use of wick drains. The results of our analysis is summarized below.

For Retaining Wall No. 7 and Hesperian Blvd. UC, boring 02-HS-1 was selected for settlement analysis. The MSE wall and abutment wall will be 38 feet high at their maximum height at these locations. Based on our analysis (attached), we recommend that 2/3 of the embankment/wall height (approx. 26 ft) be placed during the first stage and allowed to settle for 50 days. The remaining 1/3 of the embankment/wall height (approx. 12 ft) should be placed during the second stage and allowed to settle for 250 days. We anticipate that the required settlements will be completed at the end of 300 days.

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These recommended settlement periods apply for RW No. 7 (MSE), and Hesperian Blvd. On-Ramp UC bridge embankment (Bridge No. 33-0216K). These recommendations replace the settlement periods stated in Section 8.5 of the Retaining Wall Foundation Report, and Section 9.2 of the Hesperian Blvd. On-Ramp UC Bridge Foundation Report for the subject locations.

For Retaining Wall No. 8, boring 03-RW-9 was selected for settlement analysis. The MSE wall will be 38 feet high at its maximum height at this location. Based on our analysis (attached), we recommend that 2/3 of the embankment/wall height (approx. 26 ft) be placed during the first stage and allowed to settle for 60 days. The remaining 1/3 of the embankment/wall height (approx. 12 ft) should be placed during the second stage and allowed to settle for 200 days. We anticipate that the required settlements will be completed at the end of 260 days.

These recommended settlement periods apply for RW No. 8 (MSE) embankment. These recommendations replace the settlement periods stated in Section 8.6 of the Retaining Wall Foundation Report for the subject location.

Sincerely,

**Parsons Brinckerhoff**

Mitchell L. Fong  
Geotechnical Engineer



Attachments: Settlement Analysis for Retaining Wall No. 7/ Hesperian Blvd UC, and Retaining Wall No. 8

cc Aileen Read, PB Project Manager  
cc Rubin Woo, Caltrans District 4  
cc John Uozumi, Caltrans District 4

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